Topic 4: How to Perform a Prioritization Analysis

HARP performs the prioritization calculations in accordance with the guidelines set forth by the California Air Pollution Control Officers Association in the document entitled *CAPCOA Air Toxics "Hot Spots" Program Facility Prioritization Guidelines (July 1990)*. In addition, the HARP software automatically applies the appropriate molecular weight adjustment factor (MWAF) for each Hot Spots substance; therefore, facility emissions should not be manually adjusted before entering them into HARP (see Appendix I for a list of MWAFs, Chapter 4 of the OEHHA Guidance Manual for an example calculation, or the Emission Inventory Criteria Guidelines for reporting guidance). For more information on setting up a prioritization analysis, see Chapter 8 in the HARP User Guide.

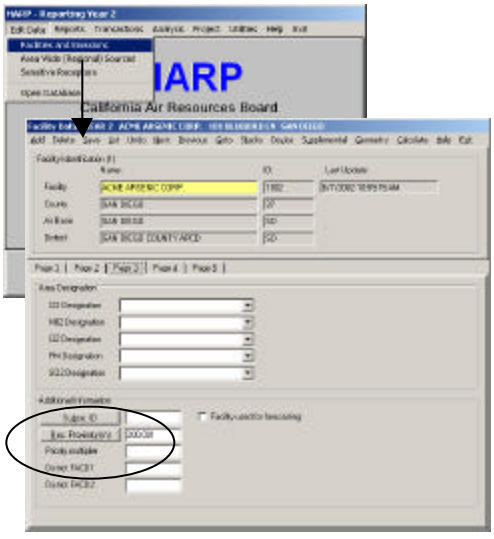
Prioritization scores are used to determine which facilities shall complete a health risk assessment for the "Hot Spots" Program. Prioritization scores should not to be interpreted as estimates of potential health impacts. Only a health risk assessment can provide those types of estimates. This functionality is intended for District use.

Prerequisite

Before you can run a prioritization analysis, you must first add your facility and emissions data into the CEIDARS-Lite emissions inventory database within HARP (See Topic 2 in the HARP How-To Guides for instructions).

Step 1. Calculating Receptor Proximities

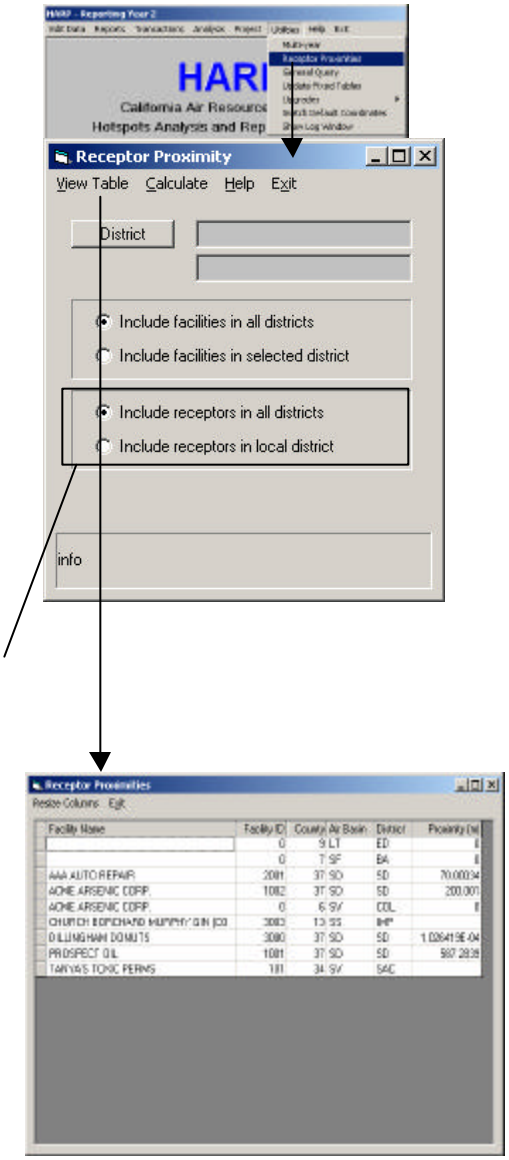
Receptor proximities are required to perform a prioritization analysis. If you have not done so already, you must enter the ***Rec. Proximity (m)*** field on Page 3 of the ***Facility Data*** window. You must do this for each facility you wish to include in the prioritization analysis. If applicable, also enter a value in the ***Priority Multiplier*** field. This factor is used to adjust a facility score. For example, this could be used if a facility emits multipathway pollutants (see the HARP User Manual and the CAPCOA prioritization guidelines for more information).



1. To begin, select ***Edit Data/Facilities and Emissions*** from the HARP main menu to enter the ***Facility Data*** window.
2. Choose a facility of interest by selecting ***List*** from the top menu. Then double click on the facility from the popup window. The ***Facility Data*** window will now display the selected facility.
3. Click the ***Page 3*** tab on ***Facility Data*** window and enter in the ***Receptor Proximity***. Note that if no value is entered for the receptor proximity, then HARP assumes that the distance is zero meters and no adjustment is made for the receptor proximity. If applicable, also enter a value in the ***Priority Multiplier*** field and select ***Save***. The priority multiplier could be

used, for example, if a facility emits multipathway pollutants or has receptors within 50 meters.

4. If you do not know the receptor proximity, it can be automatically calculated for you provided that you have set the facility boundary and entered the sensitive receptors. Press the ***Receptor Proximity*** button to automatically calculate the receptor proximity. For instruction on setting the facility boundary, see Topic 2 in the HARP How-To Guides. For instructions on inputting sensitive receptors, see Topic 3 in the HARP How-To Guides.
5. Alternatively, if you need to automatically calculate receptor proximities for several facilities in the manner as described above, select ***Utilities/Receptor Proximities*** from the HARP main menu to access the ***Receptor Proximity*** window.
6. If you want to calculate receptor proximities for a specific district, click the ***District*** button from the ***Receptor Proximity*** window. Then double click on the district from the popup window. Click on the ***Include facilities in selected district*** radio button. Then click on the ***Include receptors in local district*** radio button.
7. If you want to calculate receptor proximities regardless of the district, click the ***Include facilities in all districts*** radio button. Then click on the ***Include receptors in all districts*** radio button.
8. Next, click ***Calculate*** from the top menu.
9. To view or edit the calculated receptor proximities, click ***View Table*** from the ***Receptor Proximity*** window. Click ***Exit*** from the top menu when finished.



Step 2. Running the Prioritization Analysis

1a. To access the prioritization analysis window, click ***Calculate/Priority*** from the ***Facility Data*** window.

or

1b. From the HARP main menu, click ***Reports/Prioritization***.

2. In the ***Prioritization Report*** window, select one of the two radio buttons at the top. To calculate priorities for all facilities in a district, select the first top radio button. To calculate priorities for a single facility, select second radio button.

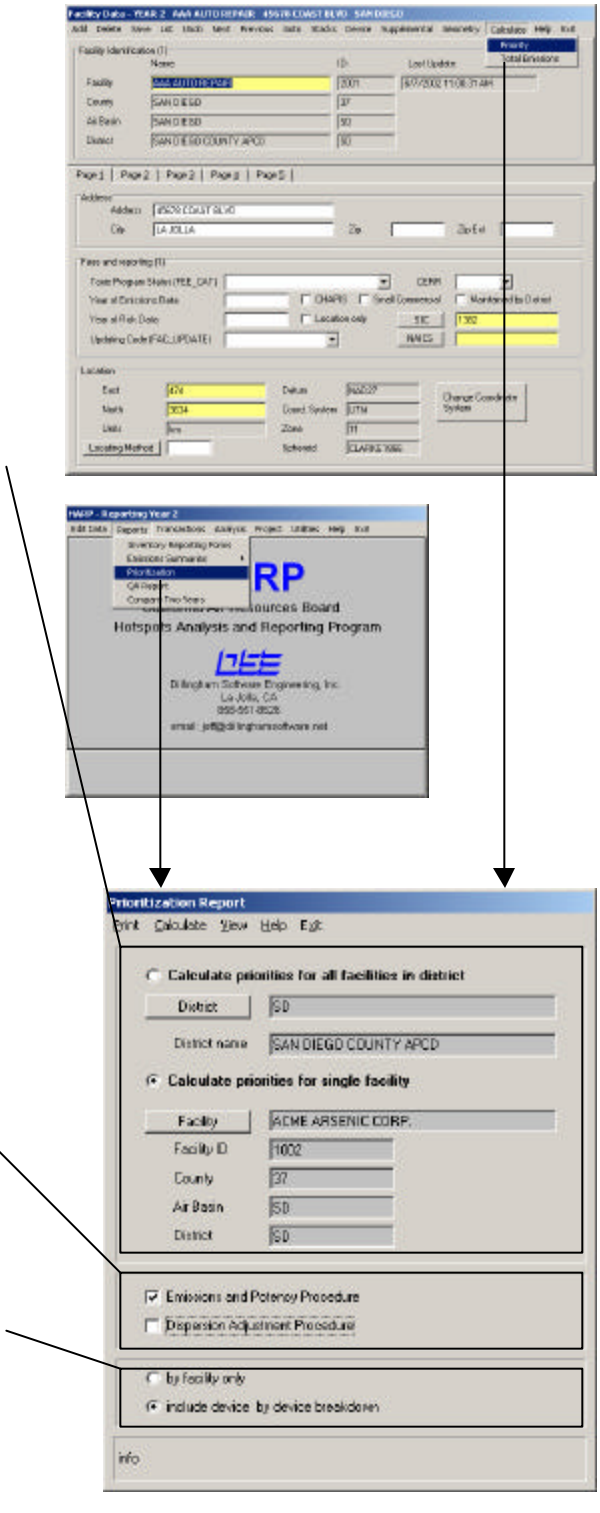
3. If you chose to calculate priorities for all facilities in a district, click the District button. To select a district, double click on a district from the popup window. You will then be returned to the Prioritization Report window with the selected district.

4. If you chose to calculate priorities for a single facility, click the Facility button. To select a facility, double click on a facility from the popup window. You will then be returned to the Prioritization Report window with the selected facility.

5. Next, use the check boxes to select which of the two calculation methods to use, either the Emissions and Potency Procedure or the Dispersion Adjustment Procedure, or both. If both methods are used, the total facility score will be the larger of the scores calculated by the two methods.

6. Next, use the bottom radio buttons to select whether you want the prioritization report to include by facility only or include a device by device breakdown.

7. Select ***Calculate/Update Priority Database*** from the top menu to run the prioritization analysis.



Step 3. Displaying/Printing the Results

1. From the top menu of the ***Prioritization Report*** window, click ***Print/Preview*** to display the prioritization report. Select ***Print*** from the top of the ***Report*** window to print the report.
2. To save the report to a file, click ***Print/Print Report to File*** from the top menu of the ***Prioritization Report*** window.